High Mountain Dams in Bonneville Unit,
Star Lake Dam
Wasatch National Forest
0.8 miles north of Trial Lake Campground
Kamas vicinity
Summit County
Utah

HAER No. UT-41-J

HAER
UTAH,
22-KAMA.V
1-

PHOTOGRAPHS

WRITTEN HISTORICAL AND DESCRIPTIVE DATA

Historic American Engineering Record
Rocky Mountain Regional Office
National Park Service
U.S. Department of the Interior
P.O. Box 25287
Denver, Colorado 80537

HAER
UTAH
22-KAM.V,
1-J-

HISTORIC AMERICAN ENGINEERING RECORD

High Mountain Dams in Bonneville Unit, Star Lake Dam

HAER No. UT-41-J

Location:	0.8 miles north of Trial Lake Campground, Wasatch National Forest Kamas vicinity, Summit County, Utah UTM: 12.504540.4504310 Quad: Mirror Lake
Date of Construction:	1926
Builder/Designer:	Provo Reservoir Company and Sego Irrigation Company of Provo, Utah Wasatch Irrigation Company and Timpanogos Irrigation Company of Heber City, Utah
Present Owner:	Union Reservoir Company, Heber City, Utah 84032
Original Use:	Dam
Present Use:	Dam
Significance:	The existing Star Lake Dam is actually the second retention structure built on that lake. The Provo Reservoir Company had built a small dam over the natural outlet by 1923; that was replaced with this structure in 1926. The present dam and secondary dike are typical earth-fill structures in an average state of preservation.
Inventoried by:	Clayton Fraser and James Jurale Fraserdesign Loveland, Colorado October 16, 1985

HISTORICAL INFORMATION

In May 1914, the National Forest Service issued a special use permit to the Provo Reservoir Company and Sego Irrigation Company of Provo, Utah, and the Wasatch and Timpanogos Irrigation companies of Heber City to dam several lakes at the headwaters of the North Fork of the Provo River for irrigation. Of the lakes approved for modification -- Crystal, Washington, Wall, Trial and Star, Star was the last to be reservoired. Two short dams, with a combined crest length of 530 feet, were built across its southern outlet in 1926. The area around the lake is timbered with a few grass openings. The dams feature typical small-scale construction and have compacted clay cores, covered with earth fill and faced with rock riprap on both upstream and downstream slopes. The outlet on the primary dam consists of a 12" diameter corrugated steel pipe surrounded by 6" concrete, and an inclined sliding headgate. It is proposed that the dam be reconfigured and new outlet works and spillway be constructed to lower the level of the lake.

ARCHITECTURAL INFORMATION

Dam length:	300 feet
Dam height:	17 feet
Dam width:	13 feet
Construct:	Earth fill dam with stone riprap facing
Lake size:	18.5 acres; 253 acre-foot maximum capacity; 11 vertical foot maximum drawdown
Outlet:	Gated steel pipe

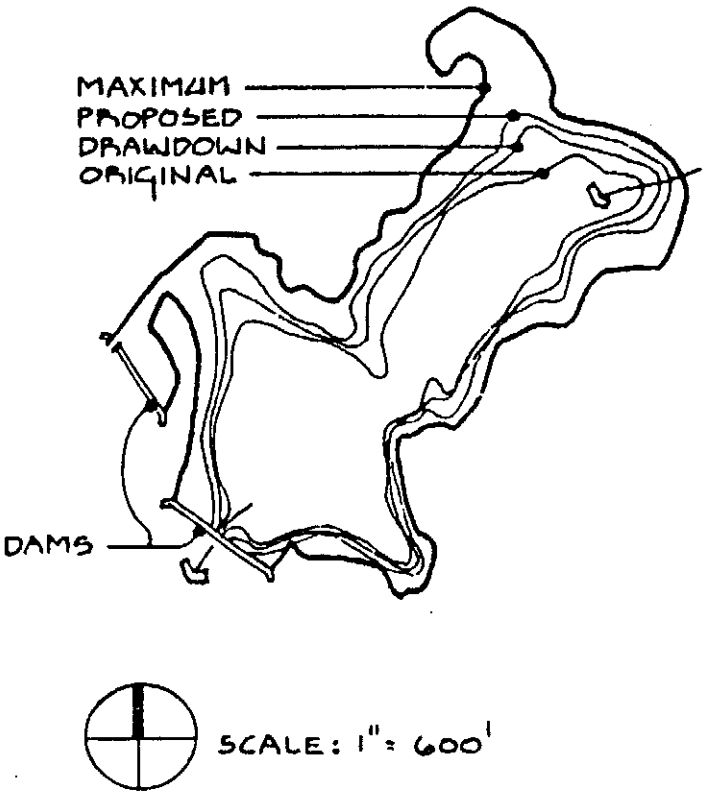
BIOGRAPHICAL INFORMATION

"Preliminary Engineering Report: Stabilization of High Mountain Lakes, Provo River Drainage, National Forest Service Report, 1969, page 50.

Star Lake Reservoir File #16-H, Kamas Ranger Station, Wasatch National Forest, Kamas, Utah.

Field inspection by Robert Righter, July 25, 1985.

For additional information, see Irrigation Canals in the Uinta Basin, HAER No. UT-30.


MAXIMUM
PROPOSED
DRAWDOWN
ORIGINAL
DAMS
SCALE: 1" = 600'